

WHAT IS CLAIMED IS:

1. A resilient switching device comprising:

a casing that is hollow and defines an interior space, the casing forming at least two slots and two recesses;

two electrically conductive pieces received in the slots of the casing respectively, a first conductive contact fixed on a first one of the conductive pieces;

a resilient contact piece comprising an elastic strip having a turning zone and deflected to a predetermined side normally, one end of the resilient contact piece being fixed to at a second one of the conductive pieces and the other end being provided with a second conductive contact at a position corresponding to the first conductive contact of the first conductive piece; and

a depression key forming a gap at a middle part for clamping the resilient contact piece, and two ends of the depression key movably extending through the recesses of the casing;

wherein by pushing either end of the depression key to move the resilient contact piece clamped at the gap upwards or downwards, the upper or the lower end face of the gap depress down or prop up the turning zone of the resilient contact piece to selectively result in engagement/disengagement between the first conductive contact and the second conductive contact, thereby selectively effecting "ON" or "OFF" state.

2. The resilient switching device according to Claim 1, wherein the resilient contact piece is made of an alloy having characteristics that deflects to one side under normal temperature and bounces to the other side beyond a predetermined threshold temperature.

3. The resilient switching device according to Claim 1, wherein both the upper and the lower end faces of the gap in the depression key are tapered.
4. The resilient switching device according to Claim 1, wherein a third conductive piece which is substantially an inverted L-shaped plate has one end extending outside the casing, a third conductive contact fixed to the third conductive piece at a position corresponding to the second conductive contact of the resilient contact piece and wherein by pushing either end of the depression key, the resilient contact piece clamped at the gap is moved upwards and deflected such that the first and second conductive contacts engage each other to effect an "ON" state of a first electric circuit, or making the resilient contact piece clamped at the gap move downwards and get deflected such that the second conductive contact engages the third conductive contact to effect an "ON" state of a second electric circuit.